

Genomic DNA from *Clostridium difficile*, Strain NAP08 (CDC#2007019)**Catalog No. HM-89D**

Product Description: Genomic DNA was obtained from a preparation of *Clostridium difficile* (*C. difficile*), strain NAP08 (CDC#2007019) which was isolated from human feces.

Lot¹: 58984212**Manufacturing Date: 04MAY2010**

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1410 base pairs)	Consistent with <i>C. difficile</i>	Consistent with <i>C. difficile</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	0.75 to 1.5 µg in 25 to 100 µL per vial	1.0 µg in 36 µL per vial (28 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on CDC Anaerobe 5% Sheep Blood Agar ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by Reinforced Clostridial Broth ([ATCC medium 1053](#)) culture of the deposited material. After incubation for 48 hours at 37°C and anaerobic atmosphere [80% N₂:10% CO₂:10% H₂], genomic DNA was extracted using proprietary technology.

²7 days at 37°C and anaerobic atmosphere [80% N₂:10% CO₂:10% H₂]

³An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 12 AUG 2010**Signature:** Signature on File**Title:** Technical Manager, BEI Authentication or designee

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